

# Audio Control & Instrumentation Cable, 2PR, 24AWG, Individual Screen & LSZH-HFFR Sheath

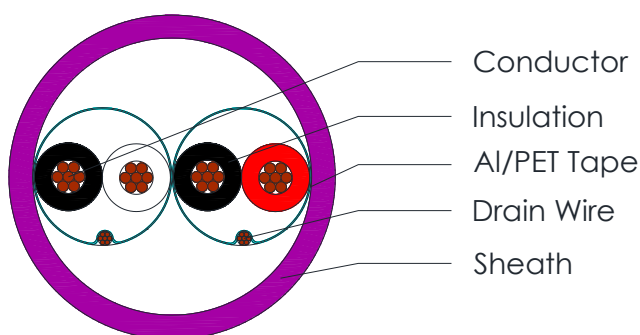


C5613

## Applications

GreenChoice Shielded Twisted Pair Cable.

## Cross Section Drawing



## Design

Unit	Properties
Conductor	Tinned Copper wire
Insulation	Foam Polyethylene Pair 1: Black + Red Pair 2: Black + White
Pair	Two wires twisted together as a pair
Inner Drain wire	24 AWG (7 x 32) Tinned Copper
Individual Screen	Aluminium/Polyester over pair
Sheath	Halogen Free Fire Retardancy (HFFR) Standard colour: Purple
Standard Put Up Length	305 meters

\*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative

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**C5613**

## Physical Characteristics

Part Number	C5613
No of Pairs	2
Conductor Size (AWG)	24(7×32)
Nom. Diameter Conductor(mm)	0.60
Nom. Radial Thickness Insulation(mm)	0.47
Nom. Insulation Diameter(mm)	1.55
Nom. Overall Diameter(mm)	6.8
Operating Temperature (°C)	-20 to +80
Max. Recommended Pulling Tension (N)	97
Min. Bend Radius (install)(mm)	68
Nominal Cable Weight (kg/km)	53.6

## Electrical Characteristics at 20°C

Part Number	C5613
No of Pairs	2
Nom. Characteristic Impedance ( $\Omega$ )	100
Nom. DC Resistance Conductor ( $\Omega$ /km)	78.8
Max. DC Resistance Screen ( $\Omega$ /km)	49.2
Capacitance conductor to conductor (pF/m)	41
Capacitance cond. To other cond.+screen (pF/m)	76
Nominal Inductance ( $\mu$ H/m)	0.75
Nom. Velocity of Propagation (%)	76
Max. Recommended Current at 25°C (Amps)	1.0
Max. Operating Voltage (Vrms)	300

Frequency (MHz)	1.03	1.41	1.54	2.05	2.82	3.07	4.10	5.65	6.14	8.20	11.29	12.30	24.6
Attenuation (dB/100m)	3.09	3.32	3.38	3.71	4.24	4.43	5.16	5.84	6.04	7.00	8.04	8.44	11.8

## Reference Standards

(BS) EN 50290-2	IEC 60754-1&-1
IEC 60228	IEC 61034
RoHS directives	IEC 60332-3-24